

## Abstract

The present invention discloses a "rounding to zero" method which can maintain the exact motion vector and can also be achieved by the method without division so as to improve the precision of calculating the motion vector, embody the motion of the object in video more factually, and obtain the more accurate motion vector prediction. Combining with the forward prediction coding and the backward prediction coding, the present invention realizes a new prediction coding mode, which can guarantee the high efficiency of coding in direct mode as well as is convenient for hardware realization, and gains the same effect as the conventional B frame coding.